6,073Form PTO-1449 (Rev. 2-32)	U.S. Departm Patent & T ATION DISCLOSURE STATEME	ent of Commerce Frademark Office	Atty. Docket No. SAIC0062-0	CON1	Serial No	o. / 630,384
	Use several sheets if necessary)		Applicant R. P.	aul SCHAU	DIES, et a	l.
MAY 0 7 200	3040	Filing Date July 30, 2	003	Group To	Be Assigned	
O TRADEMAR	1	U.S. PATEN	T DOCUMENTS			
Examiner Initial	Document Number	Date	Name	Class	Sub- Class	Filing Date (if appropriate)
	5,043,272	8/27/91	Hartley	435	91	4/27/89
	FOI	REIGN PAT	ENT DOCUMENTS	<u> </u>		
	WO 02/061659	8/8/02	Sciona Limited	G06F	19/00	1/30/02
(OTHER DOCUMENTS	(Including	Author, Title, Date,	Pertinent Pag	ges, Etc.)	
Written Opinion for Application date)			No. PCT/US01/041	04, dated Ma	ay 30, 2003	(mailing
		Iyer, L., et al., "Adaptations of the Helix-Grip Fold for Ligand Binding and Catalysis in the START Domain Superfamily," <i>Proteins: Structure, Function, and Genetics</i> , Vol. 43, pp. 134-144 (2001)				
	Kitazoe, Y., et al., "A Multidimensional V					
·	Geourjon, C., et al., Using Secondary Str					
Anantharaman, V., et al., "Regulatory Potential, Phyletic Distribution and Evolution of Ancient, Intracellular Small-Molecule-Binding Domains," <i>J. Mol. Biol.</i> , Vol. 307, pp. 1271-1292 (2001)						
	Liberles, D., et al., " 2, No. 4, pp. preprin			e (TAED),"	Genome B	iology, Vol.
	Tatusov, R., et al., "Classification of Pro No. 1, pp. 22-28 (20	teins From C		-		
	Anantharaman, V., e Uracil Methylation a 197, pp. 215-221 (20	and Adenine		_		
N	Liu, Q., et al., "DNA 13, 2000	A Computing	on Surfaces," Natur	re, Vol. 403,	pp. 175-17	9, January

ŀ

OTHE	R DOCUMENTS CONT'D. (Including Author, Title, Date, Pertinent Pages, Etc.)
PFUCIA	Woese, Carl R., "Interpreting the Universal Phylogenetic Tree," <i>Proc. Natl. Acad. Sci.</i> , Vol. 97, No. 15, pp. 8392-8396, July 18, 2000
WH O I TOOK THE	Aravind, L., et al., "The a/β Fold Uracil DNA Glycosylases: A Common Origin With Diverse Fates," Genome Biology, Vol. 1, No. 4, pp. research0007.1-0007.8 (2000)
T& TREDENIE	Natale, D., et al., "Towards Understanding the First Genome Sequence of a Crenarchaeon by Genome Annotation Using Clusters of Orthologous Groups of Proteins (COGs)," Genome Biology, Vol. 1, No. 5, pp. research0009.1-0009.19 (2000)
	Grech, A., et al., "Complete Structural Characterisation of the Mammalian and Drosophila TRAF Genes: Implications for TRAF Evolution and the Role of RING Finger Splice Variants," Molecular Immunology, Vol. 37, pp. 721-734 (2000)
	Adleman, Leonard, M., "Computing With DNA," Scientific American, Vol. 279, pp. 54-61, August, 1998
	Hacia, J. G., et al., "Strategies for Mutational Analysis of the Large Multiexon ATM Gene Using High-Density Oligonucleotide Arrays," <i>Genome Research</i> , Vol. 8, pp. 1245-1258 (1998)
	Ramsay, G., "DNA Chips: State-of-the-Art," Nature Biotechnology, Vol. 16, pp. 40-44 (1998)
Y	Adleman, Leonard, M., "Molecular Computation of Solutions to Combinatorial Problems," <i>Science</i> , Vol. 266, pp. 1021-1024, November 11, 1994
N	Atschul, Stephen, et al., "Basic Local Alignment Search Tool," J. Mol. Biol., Vol. 215, pp. 403-410 (1990)
EXAMINER	DATE CONSIDERED 6/07/5
	citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not idered. Include copy of this form with next communication.

36609/25895 WSHBLI01:177524

PTC/SB/08A (08-00)
Approved for use through 10/31/2002 OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE to a collection of information unless it contains a valid OMB control number

				C	mplet if Known
Substitute for Form 1449/A/PTO		Application Number			
INCORMATION DICCLOCUE			N DICCLOCUD	Filing Date	Concurrently Herewith
INFORMATION DISCLOSURE		I LII21 MAIIIAO IIIAAIIF I	Schaudies		
STATEMENT BY APPLICANT			BY APPLICAN	Group Art Unit	
		(use as many	sheets as necessary	Examiner Name	
Sheet	1	of	3	Attorney Docket Number	36609-259895 (SAIC0062-CON1)

				U.S. PATENT DOCUMENT	`\$	
Examiner Initials	Cite No.1	U.S. Patent Number	Document Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
N	1	6,156,502		Beattie	12/2000	
7		5,106,727		Hartley et al.	4/21/1992	
		5,994,058		Senapathy	1·1/30/1999	
		6,013,440		Lipshutz et al.	01/11/2000	
		5,632,957	,	Heller et al.	05/27/1997	
		5,773,210		Crowl et al.	6/30/1998	
		5,800,992		Fodor et al.	09/01/1998	
	-	5,821,060		Arlinghaus et al.	10/13/1998	
		5,837,832		Chee et al.	11/17/1998	
		5,858,659		Sapolsky et al.	01/12/1999	
		5,858,661		Shiloh	01/12/1999	
		5,861,242		Chee et al.	10/19/1999	
		5,871,928		Fodor et al.	02/16/1999	
77		5,925,522		Wong et al.	07/20/1999	
		5,925,525		Fodor et al.	07/20/1999	
W		5,929,208		Heller et al.	07/27/1999	· · · · · · · · · · · · · · · · · · ·
						•

				FOR	REIGN PATENT DOCUME	NTS		
Examiner Initials	Cite No.'	Office ³	Foreign Patent Docum	nent Kind Code ³ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	7
/4		E	P 0 950 720 A1		Affymetrix, Inc.	10/20/99		Т
		T Į v	VO 97/22720		Beattie, Kenneth	6/26/97		Γ
	`	V	VO 96/41893		The University of Tennessee Research Corporation	12/27/96	,	
1		V	VO99/22023		WIPO	5/06/99		F
								L
								L
					<u> </u>			l

Considered	Examiner Signature		Date Considered	Yorks
------------	-----------------------	--	--------------------	-------

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent document, the holication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

PTO/SB/088 (08-00)

Approved for use through 10/31/2002 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number Complete if Kn wn **Application Number** Filing Date Concurrently Herewith

Substitute for Form 1449/A/PTO INFORMATION DISCLOSURE First Named Inv nt r **Schaudies** STATEMENT BY APPLICANT **Group Art Unit** (use as many sheets as necessary **Examiner Name** Attorney Docket Number of 3 36609-259895 (SAIC0062-CON1) Sheet 2

	OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS					
	miner tials	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²		
	N		International Search Report for Application No. PCT/US01/04104 dated May 6, 2002 (mailing date)			
1			Guschin, Dmitry Y., et al., "Oligonucleotide Microchips as Genosensors for Determinative and Environmental Studies in Microbiology", Applied and Environmental Microbiology, Vol. 63, No. 6, pp. 2397-2402, June 1997			
			Kahl Gunter, Dictionary of Gene Technology, VCH Publishers, Inc., New York, NY (USA), June 1995			
			Boehringer Mannheim, 1998 Biochemical Catalog, GmbH printed in Germany, Jan. 1998			
			Bej et al., Multiplex PCR amplification and immobilized capture probes for detection of bacterial pathogens and indicators in water; Molecular and Cellular Probes, Vol. 4, pp. 353-365; Dec. 1990			
			Hacia, J.G. et al. (1998) "Evolutionary Sequence Comparisons Using High-Density Oligonucleotide Arrays"; Nature Genetics; 18:155-158			
			Hacia, J.G. et al. (1998) "Strategies for Mutational Analysis of the Large Multiexon ATM Gene Using High Density Oligonucleotide Arrays"; <i>Genome Research</i> , 8:1245-1258	:		
			Head, S.R. et al. (1999); "Solid-Phase Sequence Scanning for Drug Resistance Detection in Tuberculosis"; Molecular and Cellular Probes; 13:81-87			
			Telenius et al., "Degenerate oligonucleotide primed PCR: General amplification of target DNA by a single degenerate primer", Genomics (1992) 13:718-725			
			Sayada et al., "Genomic fingerprinting of Yersinia enterocolitica species by degenerate oligonucleotide primed polymerase chain reaction", <i>Electrophoresis</i> (1994) 15:562-565			
		Muller et al., "Defining ancestral karyotype of all primates by multidirectional chromosome painting between tree shrews, lemurs and humans", Chromosoma (1999) 108:393-400				
			Castellino, A.m. (1997) "When the Chips are Down", Genome Research 7:943-946			
			Grattard, F et al. (1994) "Arbitrarily Primed PCR, Ribotyping, and Plasmid Pattern Analysis Applied to Investigation of a Nosocomial Outbreak Due to Enterobacter cloacoe in a Neonatal Intensive Care Unit"; Journal of Clinical Microbioloty 32(3):596-602			
		Hacia, J.G. et al. (1996) *Detection of Heterozygous Mutations of <i>BRCA1</i> Using High Density Oligonucleotide Arrays and Tv Colour Fluorescence Analysis*; <i>Nature Genetics</i> 14:441-447				
			Ramsay, G. (1998) "DNA Chips: State-of-the Art"; Nature Biotechnology 16:40-44			
			Schena, S. (1996) "Genome Analysis with Gene Expression Microarrays"; BioEssays 18(5):427-431			
			Struelens, M.D., M.J. et al. (1998) "Comparative and Library Epidemiological Typing Systems: Outbreak Investigations Versus Surveillance Systems:, From the Fifth International Conference on the Prevention of Infection; Infection Control and Hospital Epidemiology 19(8):565-569			
			Tang, K. et al. (1999) "Chip-Based Genotyping by Mass Spectrometry (DNA Chip/Single Nucleotide Polymorphism)"; Proc. Natl. Acad. Sci USA 96L19916-10020	•		
			Wallraff, G. et al. (1997) "DNA Sequencing on a Chip (This Method, Which Combined Semiconductor Manuracturing Technology with Molecular Biology, Has been Used to Build DNA and RNA Arrays at Densities as High as 10 ⁶ sites/cm ²)", Chemtech; Feb. 1997:22-32			
			Welsh, J. et al. (1990) "Fingerprinting Genomes Using PCR with Arbritary Primers"; Nucleic Acids Research 18(24):7213-7218			
			Noonan, K.E. et al., Nucl. Acids Res. 16:10366 (1988)			
	\Box		Feinberg, A.P. et al., Anal. Biochem. 132:6-13 (1983)			
	\bot		Liang, W. et al., Nucl. Acids Res. 16:3579 (1988)			
	-	,	Mullis, K.E. et al., Cold Spring Harb. Symp. Quant. Biol. 51:263-73 (1986)	—		
	- \ 		Loh et al., Science 243:217-200 (1988) Landegren, U et al., Sciencel 242:229-237 (1988)			
	\cup		Mullis, K.B. et al. Meth. Enzymol. 155:335-350 (1987)			
	احتر		Maniatis et al., Molecular Cloning: A La. Manual, Cold Spring Harbor Lab., NY (1982), pp. 129 & 131			
			The state of the s			

			
Examiner Signature	Date Considered	66	ogles

Approved for use through 10/31/2002 OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

C mplete if Kn wn

		ipiete ii kii wii
Substitute for Form 1449/A/PTO	Applicati n Numb r	
INFORMATION DISCLOSURE	Filing Date	Concurrently Herewith
INFORMATION DISCLOSURE	First Named Invent r	Schaudies
STATEMENT BY APPLICANT	Group Art Unit	
(use as many sheets as necessary	Examiner Name	
Sheet 3 of 3	Attorney Docket Number	36609-259895 (SAIC0062-CON1)

		OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T2
V		Caetano-Anolles, G., "Amplifying DNA with Arbitrary Oligonucleotide Primers, PCR Methods and Applications, 1993, pp 85-04, Cold Spring Harbor Laboratory Press	
		Caetano-Anolles, G., "Enhanced detection of polymorphic DNA by multiple arbitrary amplicon profiling of endonuclease- digested DNA: identification of markers tightly linked to the supermodulation locus in soybean", <i>Mol. Gen. Genet.</i> , 1993, pp. 57-64, Vol. 241	
	,	Caetano-Anolles, G., "DNA Amplification Fingerprinting Using Arbitrary Oligonucleotide Primers", Applied Biochemistry and Biotechnology, 1993, pp. 189-194, Vol. 42	
V		Caetano-Anolles, G., "Primer-template interactions during DNA amplification fingerprinting with single arbitrary oligonucleotides", Mol. Gen. Genet., 1992, pp. 157-165, Vol. 235	
	•		
-			
			_
Examiner -		Date Considered Gloglo	